

Page 1

Insp.

Stamp

Thursday, September 30, 2010 12:42:07 PM Item ID: D4104-041 Accept Setup Start Revision ID: Stop Item Name: Doubler Assembly **Start Date:** 9/30/2010 Start Qty: 4.00 **Cust Item ID: Required Date: 10/8/2010** Req'd Qty: 4.00 **Customer:** Reference: Run Start Date: 10-9-30 Approvals: Date: Stop Date:_ SPC (Y/N): Date: Sequence ID/ **Operation** Set Up/ Tool ID Tool # Plan Reject Accept Reject Work Center ID Description **Run Hours** Code Qty Qty Number Draw Nbr **Revision Nbr** D4104 Α 100 0.00 FLOW WATER JET B10-10-5 Waterjet 0.00 Memo FLOW CNC Waterjet 1-Cut as per Dwg Dwg Rev: 6061.040 Prog Rev: 2-Deburr as required 110 QC2- Inspect parts off machine FAI/FAIB 0.00 1B10-10-5 0.00 Memo Quality Control

120

QC

QC8- Inspect parts - second check

Memo

0.00

Quality Control

W/O:			W	ORK ORDER CHANGE	ES			
DATE	STEP	PRO	CEDURE CHA	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							, voa mg	
Part No	•	PAR #:	Fault Cate	egory:	NCR: Yes N	lo DQA:	Date: _	
	R	esolution:	Disposition	on:	QA: N/C Clo	sed:	Date: _	
NCR:		V	VORK ORD	ER NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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Thursday, September 30, 2010 12:42:07 PM



Page 2

Item ID:

D4104-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Doubler Assembly

Start Date:

Required Date: 10/8/2010

9/30/2010

Start Oty: 4.00

Reg'd Otv: 4.00



Date:

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

OC:

Operation

Description

Small Fab

Date:

Tooling:

SPC (Y/N):

Date:

Tool # Plan

Code

Date:

Run

Accept

Oty

Stop



Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

130

Small Fab

Small Fab

Memo

COUNTER SINK AS PER DWG

Deburr if necessary.

Set Up/ Run Hours

0.00

0.00

Reject

Oty

150

QC5- Inspect part completeness to step on W/O

Chemical Conversion Coat per QSI005 4.1

Quality Control

160

HandFinish Hand Finishing Memo

Memo

0.00

000 BR 10-10-12.

Dart Aeı	rospace	Ltd									· ·
W/O:				WC	RK ORDER CHAN	IGES	·			· · · · · · · · · · · · · · · · · · ·	<u> </u>
DATE	STEP		PR	OCEDURE CHAI	NGE	E	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspector
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					·						
Part No	•		PAR #:	Fault Cate	jory:	NCR:	Yes N	o DQ	A:	_ Date: _	
	R	esolution:		Disposition):	QA: N	/C [*] Clos	ed:		Date: _	
NCR:			,	WORK ORDE	R NON-CONFORM	MANCE (NCR)		•		
DATE	OTED	Desci	ription of NC			ection B		Verific	ation	Approval	Approval
DATE	STEP		Section A	Initial Chief Eng	Action Description Chief Eng	n S	Sign & Date	Section		Chief Eng	QC Inspecto
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		Sub.									
		<u>,</u>									

Thursday, September 30, 2010 12:42:07 PM



Page 3

Item ID:

D4104-041

Accept

Setup Start



Revision ID:

Item Name:

Doubler Assembly

Start Date: 9/30/2010

Start Qty: 4.00

Required Date: 10/8/2010

Req'd Qty: 4.00



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling: SPC (Y/N):

0.00

Date: Date: Run

Start Stop

Stop

Sequence ID/ Work Center ID

161

Quality Control

Operation Description

QC3- Inspect Part Finish

Memo

QC: _____ Date: ____

Set Up/ **Run Hours**

0.00

10/10/2

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Qty

Insp. Number Stamp

165

Small Fab

Small Fab

Memo

Memo

0.00

0.00

ASSEMBLE NUT PLATES AS PER DWG

166

Quality Control

QC5- Inspect part completeness to step on W/O

0.00 6 10 16 13

W/O:		WORK ORDER CH	WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
-										
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A :	Date: _				

	,	WORK ORDER NON-CONFORMANCE (NCR)						
	Description of NC		Corrective Action Section B		Verification		Approval	
E STEP Description of NC Section A		Initial Action Description Sign & Chief Eng Chief Eng Date		Section C	Chief Eng	QC Inspector		
	•							
	STEP	STED Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Section A Initial Action Description	STEP Description of NC Section A Initial Action Description Sign &	STEP Description of NC Section A Initial Chief Eng Chief	STEP Description of NC Section A Corrective Action Section B Sign & Date Proval Chief Eng Chief	

Thursday, September 30, 2010 12:42:07 PM



Page 4

Item ID:

D4104-041

Accept

Setup Start



Revision ID:

Item Name:

Doubler Assembly

Start Date:

Required Date: 10/8/2010

9/30/2010

Start Otv: 4.00

Rea'd Otv: 4.00



Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

OC:

Date:

SPC (Y/N):

Tooling:

Date:

Date:

Run

Start

Stop

Stop

Sequence ID/

Work Center ID

180

Packaging

Packaging

Operation Description

Identify as per dwg & Stock Location: 127

Memo

Set Up/ Run Hours

0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Otv

Reject Insp. Number

Stamp

190

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

N/O:			WORK ORDER (WORK ORDER CHANGES							
DATE	STEP	PF	ROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No):	PAR #:	Fault Category:	NCR: Ye	s No DQ)A:	Date: _				
	Resolution	n:	Disposition:	QA: N/C	Closed:		Date:				

NCR:			WORK ORD	ER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	A
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	scription Sign & Date		Chief Eng	Approval QC Inspector
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				4 4 - 1				
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Thursday, September 30, 2010 12:42:11 PM

Work Order ID: 62456

Parent Item: D4104-041

Parent Item Name: Doubler Assembly



Start Date: 9/30/2010

Required Date: 10/8/2010

Start Qty: 4.00

Required Qty: 4.00

Comments:	IPP REV:A NEW	ISSUE 10-09-0	6 JLM V	ERIFIED BY	Y:DD								
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6S.040	1	Purchased	No			100	sf	57.4300	0.03	0.12631	6 1310-10	D-5	

MS21069-L3

Nut Plate

Location	Loc Oty	Loc Code
MĀT21	57.43	
111224	2	
113004	55.43	
	Each	102.0000

Location	Loc Oty	Loc Code
ST302	102	
103447	52	
115708	50	
	Each	4,419.000

MS20426AD3-3 Purchased No

Purchased

No

Rivet

Location Loc Qty Loc Code ST316 4419 4407 19099 7681 12

113004

Dart Ae	rospace	e Ltd								* - s
W/O:			W	ORK ORDER CHANGE	S					
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	,	Date (Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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						i				
Part No	:	PAR #:	Fault Ca	egory:	NCR: Y	es N	lo DQA:		Date:	
	R	esolution:	Disposit	on:	QA: N/0	Clos	sed:		Date:	
NCR:		V	VORK OR	DER NON-CONFORMAL	NCE (N	CR)				
		Description of NC		Corrective Action Section			Verificat	ion	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	1	gn & ate	Section		Chief Eng	QC Inspector

NCR:	ICR:							
		Description of NC	of NC Corrective Action Section B		Verification	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto
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DART AEROSPACE LTD	Work Order: 62456
Description: Doubles ASSEMBLY	Part Number: D4104-1
Inspection Dwg: Wiru - I Rev: A	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

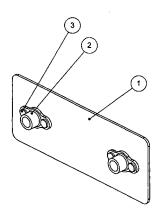
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Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
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Measured by:	ſζ	Audited by:		Prototype Approval:	N/A
Date:	10-10-5	Date: (O)	0/06	Date:	N/A

Rev	Date	Change	Revised by	Approved
Kev	Date	Onunge	KJ/JLM	1 . !
Α	7	New Issue	KOISEN	L

	L .		
ITEM	QTY -041	PART NUMBER	DESCRIPTION
	X	D4104-041	DOUBLER ASSEMBLY
	ļ		
1	1	D4104-1	DOUBLER
2	2	MS21069-L3	NUT PLATE
3	4	MS20426AD3-3	RIVET



SHO_b C_{OBA} RETURN TO ENGINET THE UNCONTROLLED COTY SUBJECT TO AMENIMENT
WITHOUT NOTICE
WORK ORDER
NO. C.J. U.S. C.

R\$10-9-30 SUBJECT TO AMENIAMENT

D4104-041 DOUBLER ASSEMBLY



NOTES:
1) MATERIAL: N/A
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4104-041" USING FINE POINT PERMANENT INK MARKER
7) WEIGHT: 0.02 lbs

Α	NEWIS	SUE		RF	10.05.06		
REV.			DESCRIPTION	BY	DATE		
DESIG	١	RF	DART AEROSP	ACEL	TD		
DRAW	١	RF,	HAWKESBURY, ONTAF				
CHECKED		#	DRAWING NO. REV				
MFG. A	PPR.	911	□D4104		SHEET 1 OF 2		
APPRO	VED	-#	TITLE		SCALE		
DE APPR.			DOUBLER ASSEMBLY NTS				
DATE	10.0	5.06	COPYRIGHT © 2019 BY DART THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED TO COMMUNICATION OF PRIVATE PRIVATE OF COMMUNICATION PRIVATED TO COMMUNICATION PRIVATED TO COMMUNICATION PRIVATED TO COMMUNICATION PRIVA	ED ON THE EXPRES	S CONDITION THAT IT IS		

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W/O:		· · ·	V	VORK ORDER CHA	NGES					
DATE	STEP	PRO	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
			•							
Part No	•	PAR #:	Fault Ca	tegory:	NC	R: Yes	No DQ	A:	_ Date:	
	Re	solution:	Disposit	ion:	QA	: N/C Clo	osed:		Date:	····
NCR:		W	ORK OR	DER NON-CONFO	RMANCE	(NCR)			
		Description of NC		Corrective Action	Section B		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descript Chief Eng	ion	Sign & Date		ion C	Chief Eng	QC Inspector
						t				

000 Φ0.098 - CSK 0.168 x 100° 4 PL 0.500 TYP Ø0.201 R0.13 0.250 2 PL TYP TYP 1.30 0.65 0.040 REF 0.59

D4104-1 DOUBLER

NOTES:
1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209
REF DART SPEC M6061T6S 040
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: NONE
7) WEIGHT: 0.02 lbs

DESIGN	RF	DART AEROSPACE LI	<u></u>
DRAWN	RF	HAWKESBURY, ONTARIO, CANAL	
CHECKED	#	DRAWING NO.	REV. A
MFG. APPR.	9/		SHEET 2 OF 2
APPROVED	-	TITLE	SCALE
DE APPR.		DOUBLER ASSEMBLY	NTS
DATE 10.0	05.06	COPYRIGHT © 2010 BY DART AEROSPACE THIS DOCUMENT IS PREVIOUS ON THE EXPRESS NOT TO BE USED FOR MANY PURPOSE OR COPIED OR COMMUNICATION TO AN OTHER WRITTEN PERMISSION FROM DARY AUTOSPACE LTD.	CONTOUR THAT IT IS

W/O:		WORK ORDER CHANGES					•
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Part No: _		_ PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:			WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B	3	Verification	A	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			
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